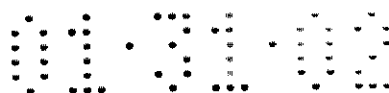
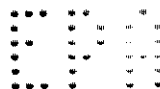


Aventis CropScience



455921-00

EPA Correspondence No. 02-01A
January 29, 2002



Ms. Elizabeth Vizard, Chemical Review Manager
Special Review and Reregistration Division (7508C)
Office of Pesticide Programs
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, Virginia 22202

Re: Aldicarb, PC Code No. 098301. TEMIK® brand Aldicarb Pesticide (EPA Registration Nos. 264-330, 264-331, 264-417, 264-426, 264-523).

Submission of Unsubmitted Aldicarb Studies Cited in the August 31, 2001 Aventis CropScience Response to the Reregistration Eligibility Decision Draft Chapter on Environmental Fate and Ecological Effects (MRID 45529101).

Submission of Environmental Fate Studies Required by EPA/SRRD in Letters Dated May 24, 2000 and October 24, 2000.

Dear Ms. Vizard:

As stated in the August 31, 2001 cover letter and in our response to the Reregistration Eligibility Decision (RED) draft chapter on environmental fate and ecological effects (see MRID 45529101), we are submitting previously unsubmitted environmental fate and ecological effects studies that address issues raised by EPA.

Most of the eight previously unsubmitted environmental fate studies were conducted in the late 1970s and early 1980s and were not intended for submission to EPA. Some of the studies are unpublished internal documents and others were taken directly from publications and have not been formatted according to PR Notice 86-5. However, regardless of their style and format, these studies are still pertinent to the issues raised in the draft RED chapter.

The six ecological effects studies were conducted specifically for use in Europe according to OECD Guidelines and were not previously submitted to EPA. However, these studies do address the issues raised in the RED chapter and, therefore, they are being submitted in support of the reregistration of aldicarb.

We are also submitting final reports for five of the environmental fate studies required by EPA/SRRD as outlined in a letter from Monica Alvarez dated May 24, 2000 and revised in a letter dated October 24, 2000. Also included is an interim report for the aldicarb aerobic soil degradation

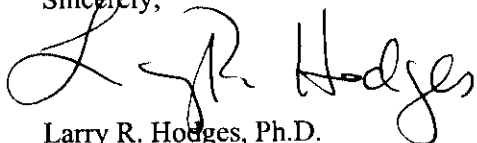
study. The final reports for two aerobic soil degradation studies (aldicarb and aldicarb sulfone) will be submitted by the August 2002 due date.

Lastly, enclosed is a study titled, "1999-2000 TEMIK® User Study". This study provides pertinent information on the actual use of TEMIK®. Data obtained in this study provide real-world information that can be used to refine risk assessments, particularly for worker and ecological risk calculations.

Enclosed are three copies each of the Transmittal Document and 21 environmental fate and ecological effects studies.

Please phone me at (919) 549-2870 if you have any questions about this submission or need additional information.

Sincerely,

A handwritten signature in black ink that reads "Larry R. Hodges". The signature is written in a cursive, flowing style with a large initial "L".

Larry R. Hodges, Ph.D.
Registration Manager

TRANSMITTAL DOCUMENT

**Submission of Unsubmitted Aldicarb Studies Cited in the August 31, 2001
Aventis CropScience Response to the Reregistration Eligibility Decision
Draft Chapter on Environmental Fate and Ecological Effects (MRID 45529101)**

**and
Submission of Environmental Fate Studies Required by EPA/SRRD in Letters
Dated May 24, 2000 and October 24, 2000**

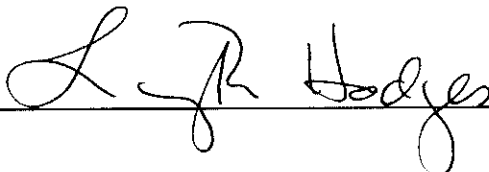
Aldicarb, PC Code No. 098301

**TEMIK® brand Aldicarb Pesticide
(EPA Registration Nos. 264-330, 264-331, 264-417, 264-426, 264-523)**

21 DOCUMENTS

TRANSMITTAL DATE

January 29, 2002

Company Official:  **(Signature)**

Company Name: Aventis CropScience

Company Contact: Larry R. Hodges **(Name)**

Telephone: (919) 549-2870

**Aventis CropScience
P.O. Box 12014
2 T.W. Alexander Drive
Research Triangle Park, N.C. 27709**

Aventis CropScience
P.O. Box 12014
211 W. Alexander Drive
Research Triangle Park, N.C. 27709

BIBLIOGRAPHY OF SUBMITTED DATA

Document 1 MRID Number: 45592101

Scarborough, T.A. (2001). 1999-2000 TEMIK® User Studies. Aventis CropScience, Research Triangle Park, NC. August 17, 2001. 78 pages.

Environmental Fate and Effects Studies

Document 2 MRID Number: 45592102

McDaniel, R. L. and D. W. Weiler. (1987). Aldicarb Vapor Pressure. Rhone-Poulenc Ag Company, Research Triangle Park, NC. Project No: 803P15. File No. 40052. June 29, 1987. 9 Pages.

Document 3 MRID Number: 45592103

McDaniel, R. L. and D. W. Weiler. (1987). Design and Validation of High Flow Apparatus for Vapor Pressure Determinations. Rhone-Poulenc Inc., Research Triangle Park, NC. Project Report No: 40182. November 12, 1987. 20 Pages.

Document 4 MRID Number: 45592104

Andrawes, N. R. (1976). Hydrolysis of UC-21865 Sulfocarb Pesticide in Aqueous Buffer Solutions. Union Carbide Corporation, South Charleston, WV. Project No. 111A14, File No. 22928. December 9, 1976. 27 Pages.

Document 5 MRID Number: 253(05)

Lemley, A.T. and W.Z. Zhong. (1983). Kinetics of Aqueous Base and Acid Hydrolysis of Aldicarb, Aldicarb Sulfoxide and Aldicarb Sulfone. J. Environ. Sci. Health, B18(2):189-206.

Document 6

MRID Number:

REF(06)

Hansen, J.L. and M.H. Spiegel. (1983). Hydrolysis Studies of Aldicarb, Aldicarb Sulfoxide and Aldicarb Sulfone. *Environmental Toxicology and Chemistry*, (2):147-153.

Document 7

MRID Number:

REF(07)

Lemley, A.T. and W.Z. Zhong. (1984). Hydrolysis of Aldicarb, Aldicarb Sulfoxide, and Aldicarb Sulfone at Parts per Billion Levels in Aqueous Mediums. *J. Agric. Food Chem.*, (32):714-719.

Document 8

MRID Number:

REF(08)

Lightfoot, E.N., P.S. Thorne, R.L Jones, J.L. Hansen and R.R. Romine. (1987). Laboratory Studies on Mechanisms for the Degradation of Aldicarb, Aldicarb Sulfoxide and Aldicarb Sulfone. *Environmental Toxicology and Chemistry*, (6):377-394.

Document 9

MRID Number:

45592105

Andrawes, N. R. (1976). Photochemical Transformation of UC 21865 Sulfocarb Pesticide. Union Carbide Corporation, South Charleston, WV. Project No. 111A14, File No. 22936. December 13, 1976. 17 Pages.

Environmental Fate Studies Required by EPA/SRRD Per Correspondence from Monica Alvarez Dated May 24, 2000 and October 24, 2000

Document 10

MRID Number:

45592106

Allan, J.G. (2001). Interim Report: The Route and Rate of Degradation of [S-Methyl-¹⁴C]-Aldicarb in Two Soils Under Laboratory Aerobic Conditions at 25° C. (OPP §162-1). Aventis CropScience, Research Triangle Park, NC. Study No. 601YT. December 21, 2001. 120 Pages.

Document 11

MRID Number:

45592107

Jesudason, P.A. (2001). Aerobic Aquatic Metabolism of [S-Methyl-¹⁴C]- Aldicarb Under Laboratory Conditions at 25° C. (OPP §162-4). Aventis CropScience, Research Triangle Park, NC. Study No. 602YT. December 20, 2001. 127 Pages.

Document 12 MRID Number: 45592108
Liu, A.C. (2001). Aerobic Aquatic Metabolism of [S-Methyl-¹⁴C]- Aldicarb Sulfoxide Under Laboratory Conditions at 25° C. (OPP §162-4). Aventis CropScience, Research Triangle Park, NC. Study No. 604YT. December 13, 2001. 135 Pages.

Document 13 MRID Number: 45592109
Jesudason, P.A. (2001). Aerobic Aquatic Metabolism of [S-Methyl-¹⁴C]- Aldicarb Sulfone Under Laboratory Conditions at 25° C. (OPP §162-4). Aventis CropScience, Research Triangle Park, NC. Study No. 603YT. December 20, 2001. 149 Pages.

Document 14 MRID Number: 45592110
Rupprecht, J.K. (2001). Anaerobic Aquatic Metabolism of [S-Methyl-¹⁴C]- Aldicarb Sulfoxide Under Laboratory Conditions at 25° C. (OPP §162-3). Aventis CropScience, Research Triangle Park, NC. Study No. 606YT. December 13, 2001. 107 Pages.

Document 15 MRID Number: 45592111
Huang, M.N. (2001). Anaerobic Aquatic Metabolism of [S-Methyl-¹⁴C]- Aldicarb Sulfone Under Laboratory Conditions at 25° C. (OPP §162-3). Aventis CropScience, Research Triangle Park, NC. Study No. 605YT. December 13, 2001. 109 Pages.

Ecotoxicology Studies -- Aldicarb

Document 16 MRID Number: 45592112
Handley, J.W., I.G. Sewell and A.J. Bartlett. (1991). An Assessment of the Effect of Aldicarb on the Reproduction of *Daphnia magna*. Safepharm Laboratories Ltd., Derby, U.K. Project Number 282/112. September 18, 1991. 63 Pages.

Document 17 MRID Number: 45592113
Odin-Feurtet, M. (1999). Aldicarb: Acute Toxicity (96-Hour) to Bluegill Sunfish (*Lepomis macrochirus*) Under Static Conditions. Rhône-Poulenc Agro, Sophia Antipolis, France. Report Number SA 99331. October 15, 1999. 74 Pages.

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Document 18 MRID Number: 45592114
Handley, J.W., D. Grant-Salmon and A.J. Bartlett. (1995). The Acute Toxicity of Aldicarb Sulfoxide to *Daphnia magna*. Safepharm Laboratories Ltd., Derby, U.K. Project Number 282/442. January 6, 1995. 25 Pages.

Document 19

MRID Number: 45592115

Odin-Feurtet, M. (1998). Aldicarb Sulfoxide: Acute Toxicity (96 hours) to Rainbow Trout (*Oncorhynchus mykiss*) Under Flow-Through Conditions. (EPA Guideline Number 72-1). Rhône-Poulenc Agro, Sophia Antipolis, France. Report Number SA 98081. July 10, 1998. 65 Pages.

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MRID Number: 45592116

Gallagher, S.P., J. Grimes, J.B. Beavers and K.H. Martin. (1998). Aldicarb Sulfone: A Dietary LC50 Study with the Northern Bobwhite. (EPA Guideline Number 71-2). Wildlife International Ltd., Easton, MD. Project No. 171-136A. March 31, 1998. 79 Pages.

Document 21

MRID Number: 45592117

McElligott, A. (1998). Aldicarb Sulfone: Acute Toxicity (96 hours) to Rainbow Trout (*Oncorhynchus mykiss*) Under Flow-Through Conditions. (EPA Guideline Number 72-1). Rhône-Poulenc Agro, Sophia Antipolis, France. Report Number SA 98082. July 30, 1998. 64 Pages.